

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Method for selecting a window size for a packet switched connection between a sending party and a receiving party, wherein said sending party uses a window based congestion control mechanism for avoiding or handling congestion on a communication path used for said connection, a window size defining the maximum number of data packets that can be sent by said sending party before an acknowledgement of the reception of a packet is received by said sending party, comprising the steps of:

- retrieving information about a bit rate of a link belonging to said communication path across which the connection between the parties is set up,
- retrieving information about an estimation of a round trip time on the connection between the parties,
- determining an estimation of a pipe capacity for the connection between the parties according to the retrieved bit rate and the round trip time of the connection,
- determining an upper threshold value for the window size based on the pipe capacity, and
- selecting a window size, wherein said window size is above zero and below or equal to the upper threshold value, and
- storing the selected window size together with an indication of the determined estimation of pipe capacity.

2. (Currently amended) Method according to claim 1, ~~further comprising wherein~~ the step of storing the selected window size together with an indication of the determined estimation of pipe capacity, ~~or comprises storing~~ a predefined range of pipe capacities comprising the determined estimation of pipe capacity, ~~of the connection~~.

3. (Previously Presented) Method according to claim 1 further comprising the step of determining a destination of the connection, and wherein the selected window size is stored together with an identification of said destination.

4. (Previously Presented) Method according to claim 3, wherein the communication system is a cellular communication system and said destination includes a location area, a routing area, a cell, a service area or an area served by a radio network controller, a mobile services switching centre, a radio base station or a serving general packet radio service support node.

5. (Previously Presented) Method according to claim 1, wherein the communication system is a cellular communication system and the link is a wireless link.

6. (Previously Presented) Method according to claim 1 wherein said window size is for an initial window, a loss window or a restart window.

7. (Previously Presented) Method according to claim 1, wherein said sending party includes a proxy server, a mobile user equipment, a radio network controller, a radio base station or a general packet radio service support node.

8. (Currently Amended) Method according to claim 1, wherein the upper threshold value is in a range of plus or minus two packets around twice the determined estimation of pipe capacity or twice the higher value of the predefined range of pipe

capacities comprising the determined estimation of pipe capacity of the connection the window is used for.

9. (Previously Presented) Method according to claim 1 further comprising the steps of:

- receiving a congestion indication for said connection before an acknowledgement for all packets sent in an initial window, a loss window, or a restart window is received, and
- selecting a smaller window size.

10. (Original) Method according to claim 9, wherein the selected smaller window size is about half the size of the window size used before, unless the former window size was one.

11. (Currently Amended) Method according to claim 1 further comprising the step of detecting an increase of the determined estimation of pipe capacity for said connection, and selecting a new window size for said connection, wherein the new congestion window size is one of an initial window size, a loss window size or a restart window size that are used for connections with the same pipe capacity or with a determined estimation of pipe capacity that falls into the same predefined range of pipe capacities as the increased pipe capacity, or wherein, if none of said initial window size, loss window size or restart window size is available, a value is selected that is n times the increased determined estimation of pipe capacity, with n greater than or equal to 1 and smaller than or equal to 2.

12. (Previously Presented) Method according to claim 11, wherein said congestion window size for the connection is set to the selected window size value.

13. (Original) Method according to claim 11, wherein a slow start threshold value for the connection is set to the selected window size value.

14. (Previously Presented) Method according to claim 1 further comprising the steps of:

- monitoring for a predefined number of seconds or number of connection set-ups or restarts that no congestion indication is received for a connection before an acknowledgement for all packets sent in an initial window, a loss window, or a restart window is received, and
- selecting a larger window size that is smaller than or equal to the upper threshold value.

15. (Original) Method according to claim 14, wherein the selected larger window size differs from the window size used before by a predefined constant number.

16. (Previously Presented) Method according to claim 14, wherein the steps of receiving of said congestion indication, the monitoring, and the selecting of said larger window size are performed separately for different destinations.

17. (Currently Amended) Method according to claim 1, wherein the selected window size is used for a further connection with the same determined estimation of pipe capacity or with a pipe capacity within ~~the same~~ a predefined range of pipe capacities. the predefined range comprising the determined estimation of pipe capacity, that is set-up or restarted.

18. (Currently Amended) Method according to claim 1, wherein the selected window size is used for a further connection with the same destination and the same determined estimation of pipe capacity or with a pipe capacity within the ~~same~~ a predefined range of pipe capacities, the predefined range comprising the determined estimation of pipe capacity, that is set-up or restarted.

19. (Currently Amended) Window size selecting unit for a communication system for connecting a sending party and a receiving party, wherein said sending party is adapted to use a window based congestion control mechanism for avoiding or handling congestion on a communication path, the window size defining the maximum number of data packets that may be sent by said sending party before an acknowledgement of the reception of a packet is received by the sending party, comprising:

an input/output unit for sending and receiving data.

a processing unit for controlling the other units, comprising a selection unit for selecting a window size above zero and below or equal to an upper threshold value for a connection between the parties, wherein the upper threshold value is determined based on a determined estimation of pipe capacity calculated from a bit rate of a link belonging to the communication path and a estimated round trip time on a connection between the parties, and

a storage for storing a selected window size together with an information about the determined estimation of pipe capacity.

20. (Currently Amended) Window size selecting unit according to ~~claim 18~~ claim 19, further comprising ~~a storage for storing window sizes together with an information about a pipe capacity and~~ a comparing unit for comparing stored pipe capacities and determined estimations of pipe capacities.

21. (Currently Amended) Window size selecting unit according to claim 20, further comprising a destination determining unit for determining a destination of a connection, wherein the storage is adapted to store an identification of a destination together with the window size and the information about ~~[[a]]~~ pipe capacity, and wherein the comparing unit is adapted to compare stored destinations and determined destinations.

22. (Currently Amended) Threshold value determining unit comprising an input/output unit, a pipe capacity determining unit for determining a round trip time of a connection and a bit rate of said connection, and for determining the pipe capacity of said connection from the round trip time and the bit rate, and a processing unit for controlling the units and calculating an upper threshold value for further use in a window size selecting unit, and a storage for storing a selected window size together with an information about the determined estimation of pipe capacity.